

AMENDMENTS TO CLAIMS

1. (Previously Presented) A millimeter-wave passive FET switch, comprising a signal line, an FET, an impedance transformation network, wherein a gate of said FET is connected with a voltage for controlling the impedance between a drain and a source of said FET, said drain and said source are series connected with said impedance transformation network, and then parallel connected or series connected with said signal line; and wherein there is no reactance component connected between said drain and said source of said FET.

2. (Original) The switch according to claim 1, wherein said impedance transformation network is a combination of transmission lines.

3. (Currently Amended) The switch according to claims 1 or 2, wherein ~~said impedance transformation network is designed to make as good as possible that the~~ an equivalent impedance of said switch contains no reactance.

4. (Previously Presented) The switch according to claim 3, wherein said impedance transformation network is designed to make the off-state effective high capacitance of said FET in high frequency become low impedance, while the on-state low impedance of said FET in high frequency becomes high impedance.